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## Human Rights Council

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**Promotion and protection of all human rights, civil,  
political, economic, social and cultural rights,  
including the right to development**

## **Written statement\* submitted by Planetary Association for Clean Energy, Inc., The, a non-governmental organization in special consultative status**

The Secretary-General has received the following written statement which is circulated in accordance with Economic and Social Council resolution 1996/31.

[11 February 2019]

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\* Issued as received, in the language(s) of submission only.



## **5G is cruel, inhuman and degrading treatment under resolution 39/46**

In 1954, the tobacco industry founded the precursor to what is known today as the Council for Tobacco Research. This organization financed hundreds of so-called independent researchers, who published several thousand peer-reviewed studies the goal of which, as we now know, was to create controversy and doubt about a causal link between smoking and a wide array of grave illnesses. [1]

They used arguments which claimed to be “scientific” although industry insiders knew as early as 1950 that their product was dangerous. In 1969, an internal note from a subsidiary of a leading tobacco firm stated, “Doubt is our product”. [1]

These techniques are still extensively used today by telecommunications companies. The parallels with the tobacco industry are striking although the tactics subsequently improved with relentless lobbying. [2]

However, this is where the comparison between the tobacco and telecommunications industries stops. Electromagnetic radiation (EMR) has no smell and you cannot see it. It is everywhere, you cannot escape it, thus the consequences of biased science combined with the impalpable nature of EMR are far more insidious and far-reaching. [3]

Dr. Richard Horton, Editor of *The Lancet*, after a symposium held in April 2015 on the *Reproducibility and Reliability of Medical Research*, wrote as follows: “A lot of what is published is incorrect [...] The case against science is straightforward: much of the scientific literature, perhaps half, may simply be untrue. Afflicted by studies with small sample sizes, tiny effects, invalid exploratory analyses, and flagrant conflicts of interest [...] science has taken a turn towards darkness.” [4]

Among others, Professor Emeritus Henry Lai, a leading bioengineer at the University of Washington who produced groundbreaking work on the effects of low-level radiation on DNA, faced full-scale efforts to discredit his work when he published it in 1995. [5]

In an internal company memo leaked to a scientific publication, Motorola described its plan to “war-game” and undermine his research. [5]

After accepting industry funding for continued research from the Wireless Technology Research (WTR) programme, Professor Lai wrote an open letter to *Microwave News* questioning restrictions placed on his research by the funders. [5]

The head of WTR then asked University of Washington president Richard McCormick to fire Professor Lai, which he refused to do. [5]

Professor Lai says that without government funding, most scientific research is funded by private industry and “you don’t bite the hand that feeds you. The pressure is very impressive.” [5]

In 2006, faced with contradictory research, Professor Lai did an analysis of 326 studies on cell phone radiation conducted between 1990 and 2006, and where their funding came from. [5]

He found that 56 per cent of the 326 studies showed a biological effect from radio-frequency radiation and 44 per cent did not. But when he looked at their funding, he discovered that 73 per cent of independently-funded studies found an effect, as opposed to only 27 per cent of industry-funded studies. [5]

Despite what is being portrayed in the mainstream, wireless radiation has biological effects and this is not a subject for debate. [6]

This was already established more than 60 years ago when the US Department of Defense tested the impact of EMR on animals and human beings under a variety of conditions. [7]

These biological effects are seen in all life forms—plants, animals, insects and microbes. [8]

There are more than 10,000 peer-reviewed studies pertaining to the health impacts of EMR and substantial evidence for the cumulative nature and eventual irreversibility of some effects, whether neurological/neuropsychiatric, reproductive, cardiac, mutations in DNA, or hormonal effects. Some may affect the evolution of the human race. [9]

In humans, there is clear evidence that EMR is causing not only cancer but a wide array of debilitating ailments including cognitive impairment, learning and memory deficits, neurological damage, miscarriage, impaired sperm function and quality, obesity, diabetes, tinnitus, impacts on general well-being, alteration of heart rhythm, and cardiovascular diseases. At the cellular level EMR causes alterations in metabolism and stem cell development, gene and protein expression, increased free radicals, oxidative stress and DNA damage. [9]

Effects in children are important and include some of the above plus autism, attention deficit hyperactivity disorder (ADHD) and asthma. [9]

EMR has immediate effects on certain aspects of biology. These may be expressed faster in people already suffering from electrosensitivity (ES) and electrohypersensitivity (EHS). Although these are not medical terms, they refer to up to 13% of people globally who have happened to discover what is making them sick in spite of the disbelief of others. Many such people cannot work, are homeless, or have committed suicide because they had nowhere to hide from the radiation. [10]

The impact of wireless telecommunication technologies on humans and their environment was never tested before each and every new generation was globally deployed. Average adults and their children have been used as experimental guinea pigs without ever being informed or asked for their consent. On the contrary, the public has been actively misled. [11]

Economic interests have prevailed over the precautionary principle and precautionary approaches. [12]

There is no opt-out. With the advent of 5G, everyone is indiscriminately irradiated in ever-increasing doses. [13]

Those responsible for keeping this industry in check, including the World Health Organisation, US Federal Communications Commission and other national and international bodies have not ever been forthcoming about the dangers of radio-frequency radiation. Instead they have protected the industry's interests, with total disregard of known health impacts. [14]

Working groups focused on health impacts of EMR at the International Commission on Non-Ionising Radiation Protection (ICNIRP), the Scientific Committee on Emerging and Newly Identified Health Risks, the Institute of Electrical and Electronics Engineers, the International Electrotechnical Commission and the International Telecommunication Union, for example, are notoriously plagued by conflicts of interests and/or directly working with the industry. [15]

Despite the unequivocal consequences, the media are still actively misleading the public. [16]

All the elements of a scientific experiment gone wrong are present, along with a profit and liability motive for a cover-up. Economic interests now worth over 3.4 trillion USD in assets have prevailed over public health. [17]

To deploy 5G, not only will the density of antennas be increased by at least a factor of 5 on average, but the current ICNIRP radiation limits will have to be increased by 30 to 40% in order to make its deployment technologically feasible. [18]

This won't be enough to ensure total 5G coverage, so thousands of low earth orbit (LEO) satellites will beam the signal from above. This implies radiation impacts not only on our health but also on the earth's atmosphere. LEOs will be emitting modulated signals at millions of watts of effective power straight into the atmosphere, whose nature is inherently electrical. [19]

5G networks will exist alongside previous generations of wireless technology, but unlike them, will pulse millimetre waves from phased-array antennas at levels of EMR tens to hundreds of times greater than those existing today. The idea that the human body can tolerate 5G radiation is based on the faulty assumption that shallow absorption by the skin is harmless. [20]

When an ordinary electromagnetic field enters the body, it causes charges to move and currents to flow. But when extremely short electromagnetic pulses enter the body, the moving charges themselves become little antennas that re-radiate the electromagnetic field and send it deeper into the body. They become more significant when either the power or the phase of the waves changes rapidly, and 5G will likely satisfy both criteria. [21]

Shallow penetration of millimetre waves also poses a unique danger to the eyes and skin, as well as to very small creatures. Peer-reviewed studies recently published predict thermal skin burns in humans from 5G and resonant absorption by insects, which absorb much more radiation at millimetre wavelengths than they do at wavelengths presently in use. [22]

Since populations of flying insects have declined by 75-80 per cent since 1989, which also coincides with early deployments of cellular networks, 5G radiation could have catastrophic effects worldwide. [23]

PACE believes that 5G, together with previous generations of wireless technology, is an experiment on humanity that constitutes cruel, inhuman and degrading treatment under General Assembly resolution 39/46 of 10 December 1984. [24]

The deployment of 5G violates over 15 international agreements, treaties and recommendations, including article 7 of the International Covenant on Civil and Political Rights, which derives from the Nuremberg Code of 1947. [25]

It also violates the Declaration of Helsinki of 1964 and its several revisions, as well as other international guidelines that have been translated into national laws in various countries. [26]

For references, please see: [www.guineapigsappeal.org/un/references.pdf](http://www.guineapigsappeal.org/un/references.pdf)